Beam Power Tube

	NOVAR TYPE	DARK H	EATER			
	For High-Voltage-Pulse Shunt-Regulator Applications in Color-TV Receivers	r				
ELECTRICAL CHARACTERISTICS						
	Bogey Values					
<u> </u>	Heater Voltage Eh Heater Current Ih Direct Interelectrode Capacitances Without external shield	6.3	V A			
	Grid No.1 to plate	1.2 22 9.0	pF pF pF			
	For the following characteristics, see Cond	itions				
	Amplification Factor $(Triode\ Connection)^a$ μ - μ Plate Resistance (Approx.) r_p		Ω μ mho mA mA V			
	Conditions	_				
	-01	Value 140 0 140 -24.5	V V V V			
MECHANICAL CHARACTERISTICS						
	Operating Position	eral Se . 3.13 . 2.79 . 1.50 ignation Exhaus	ction 30 in 50 in 62 in n TI2 t Tip			
$\overline{}$	TERMINAL DIAGRAM (Bottom View)					
	Pin 1 - Grid No.2 Pin 2 - Grid No.1 Pin 3 - Cathode Pin 4 - Heater Pin 5 - Heater Pin 6 - Grid No.3 Pin 7 - Grid No.2 Pin 8 - Do Not Use Pin 9 - Plate	7 ^{G2} 8 ic				
	G2 9QU	Р				

DESIGN-MAXIMUM RATINGS

For operation as a High-Voltage-Pulse Shunt-Regulator Tube in Color-Television Receivers in a 525-line, 30-frame system

DC Plate Supply Voltage						
$(l_b = 0 \text{ mA})$.	Еьь	770	٧			
Peak Positive-Pulse Plate Voltage ^c	ebm	6500	Ý			
Peak Negative-Pulse Plate Voltage.	-e _{bm}	1500	٧			
DC Grid-No.3 Voltage	E _{c3}	75	٧			
DC Grid-No.2 (Screen-Grid) Voltage	E _{c2}	220	٧			
Grid No.1 (Control-Grid) Voltage						
Peak negative-pulse value	-e <mark>c≀m</mark>	330	٧			
Negative dc value (bias) Heater-Cathode Voltage	-E _{cl}	75	٧			
-		(1200				
Peak	e _{hkm}	∫+200 -500	٧			
Average ^d	Fhk(au)	100	٧			
Average ^d	-iiktav) Eh	5.7 to 6.9	v			
Cathode Current						
Peak	ikm	950	mΑ			
Average ^a	k(av)	275	mΑ			
Grid-No.2 Input	Pg2´ Pb	3.5	W			
Plate Dissipatione	₽b	20 ^f	W			
Envelope Temperature (at hottest	-	011.0	0.			
point on envelope surface)	ΤĘ	240	OC			
MAXIMUM CIRCUIT	VALUE		_			
Grid-No.1-Circuit Resistance Rgl(ckt)						
For grid-No.1-resistor-bias	gr(CKL)					
operation	_	1	$M\Omega$			

 $^{{\}bf a}$ With grid No.3 and grid No.2 connected, respectively, to cathode and plate at socket.

This value can be measured by a method involving a recurrent waveform such that the Maximum Ratings of the tube will not be exceeded.

This rating is applicable where the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is 10 μs .

d Measured with a dc meter.

Adequate circuit precautions must be taken to protect the tube in the absence of $\operatorname{grid}\textsc{-No.1}$ bias.

 $[\]label{eq:first} \textbf{f} \begin{array}{l} \textbf{Plate dissipations up to 24 W maximum are permissible for short periods} \\ \textbf{of time (up to 10 s maximum) provided the maximum envelope-temperature rating is not exceeded.} \end{array}$